

# भारत का राजपत्र The Gazette of India

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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
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Chennai-600 090.

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Telegraphic address "PATENTOFIS"

Phone No. 490 1495  
Fax No. 044 490 1492

Patent Office (Head Office),  
"NIZAM PALACE", 2nd M.S.O  
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Bose Road, Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS"

Phone No. 247 4401  
Fax No. 033 247 3851

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कलकत्ता, दिनांक 15 अप्रैल 2000

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पेटेंट कार्यालय शाखा, टोडी इस्टेट,  
तीसरा तल, लोअर पररेल (प.),  
मुम्बई-400013।

गुजरात, महाराष्ट्र, मध्य प्रदेश  
तथा गोआ राज्य क्षेत्र एवं संघ  
शासित क्षेत्र, दमन तथा दीव एवं  
दादर और नगर हवेली।

तार पता - "पेटेंटॉफिस"

फोन : 482 5092 फैक्स : 022 4950 622

पेटेंट कार्यालय शाखा,  
एकक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
मरुस्वती मार्ग, करोल बाग,  
नई दिल्ली-110 005।

हरियाणा, हिमाचल प्रदेश, जम्मू  
तथा कश्मीर, पंजाब, राजस्थान,  
उत्तर प्रदेश तथा दिल्ली राज्य  
क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़।

तार पता - "पेटेंटॉफिस"

फोन : 578 2532 फैक्स : 011 576 6204

पेटेंट कार्यालय शाखा,

विंग "सी" (सी-4, ए),

तीसरा तल, राजाजी भवन,

बसन्त नगर, चेन्नई-600090।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु,

तथा पाण्डिचेरी राज्य क्षेत्र एवं

संघ शासित क्षेत्र, लक्षद्वीप, मिनिक्काय

तथा एमिनिदिबि द्वीप।

तार पता - "पेटेंटॉफिस"

फोन : 490 1495 फैक्स : 044 490 1492

पेटेंट कार्यालय (प्रधान कार्यालय),

निजाम पैलेस, द्वितीय बहुतलीय कार्यालय

भवन, 5, 6 तथा 7वां तल,

234/4, आचार्य जगदीश बोस मार्ग,

कलकत्ता-700 020।

भारत का अवशेष क्षेत्र।

तार पता - "पेटेंटॉफिस"

फोन : 247 4401 फैक्स : 033 247 3851

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम,  
1999 अथवा पेटेंट (संशोधन) नियम, 1972 द्वारा जर्पेशन  
सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज या कोड  
कोई पेटेंट कार्यालय के केवल समुचित कार्यालय में ही प्रेषण  
किये जायेंगे।

शुल्क : शुल्कों की अदायगी या तो नकद की जाएगी अथवा  
जहां उपयुक्त कार्यालय अवस्थित है, उस स्थान की दानुस्वीकृत  
बैंक में नियंत्रक को भगतान योग्य बैंक ड्राफ्ट अथवा बैंक द्वारा  
की जा सकती है।

APPLICATION FOR THE PATENT FILED AT THE HEAD  
OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-700020.

27-1-2000

39/Cal/2000. Ramesh Prasad Shrivastava. Tank's Fluid  
Ranging Automatic Switch for the Electric Motor  
Pump.

40/Cal/2000. Shri Kashyap Gogoi. Effects of Plant extracts  
on the control Termites.

41/Cal/2000. Rahee Industries Limited. Improvements in  
or relating to railway rail fastening clip and rail-  
way rail fastening assembly using the same.

42/Cal/2000. McDermott Technology, Inc. Mercury remo-  
val in utility wet scrubber using a chelating agent.  
[Convention No. 09/282, 816 on 31-3-1999 in  
USA].

43/Cal/2000. Huang Ching-Chuan. Machine for cleaning  
compact disc.

28-1-2000

44/Cal/2000. Alza Corporation. A method for preparing  
stable nucleic acid compositions. [Convention No.  
60/028, 167 on 16-10-1996 & 60/052, 920 on 15-7-  
1997 in USA]. (Divided out of No. 1756/Cal/97  
date 23-9-97).

31-1-2000

45/Cal/2000. PMA Ag. Connector for a corrugated pipe  
with locking portion. [Convention No. 199 11  
724.1 on 16-3-1999 in Germany].

46/Cal/2000. General Electric Company. Method of using  
fuel gas expander in power generating plants.

47/Cal/2000. (1) Pareti Vittorio, (2) Visentin Daniela.  
Machine tool for working stone and agglomerates  
of inert materials. [Convention No. BZ99A000005  
on 5-2-1999 in Italy].

48/Cal/2000. Eaton Corporation. Clutch friction disc ba-  
lancing method. [Convention No. 248, 619 on  
11-2-1999 in USA].

1-2-2000

49/Cal/2000. Torrent Pharmaceuticals Ltd. A commer-  
cially viable process for producing purified biolo-  
gically active, Free form of recombinant human  
interferon gamma.

50/Cal/2000. Parsec Sight/Sound, Inc. A system and me-  
thod for manipulating a computer file and/or pro-  
gram. [Convention No. 09/256, 432 on 23-2-  
1999 in USA].

51/Cal/2000. Degussa-Huls Aktiengesellschaft. Process for the production of 2, 3, 5-trimethylhydroquinone diesters. [Convention No. 199 05 685.4 on 11-2-1999 in Germany].

52/Cal/2000. Wei Meng-Yu. Computer input device.

3-2-2000

53/Cal/2000. Johnson & Johnson Vision Products, Inc. Progressive addition lenses having regressive surfaces. [Convention No. 09/244356 on 4-2-1999 in USA].

54/Cal/2000. Fibreguide Limited. Air jet. [Convention No. 9902501.7 on 5-2-1999 in U.K.].

55/Cal/2000. Mandl Gerhard. A fibre preparatory machine, in particular a carding or blowroom machine. [Convention No. 99810177.8 on 2-3-1999 in Europe].

4-2-2000

56/Cal/2000. Purna Bahadur Kharkathoki. Super generator.

57/Cal/2000. Harris Corporation. Improved integrated network switch. (Divided out of No. 656/Cal/95 dated 09-06-1995).

58/Cal/2000. Harris Corporation. Improved integrated network switch. (Divided out of No. 656/Cal/95 dated 09-06-1995).

59/Cal/2000. Satake Corporation. Method and apparatus for estimating quality of grains. [Convention No. 054270/1999 on 2-3-1999 in Japan].

60/Cal/2000. Premier Irrigation Equipment Limited. Movable tee with Adaptor.

61/Cal/2000. Premier Irrigation Equipment Limited. Movable tee piece with outlet.

7-2-2000

62/Cal/2000. Siemens Aktiengesellschaft. Communications receiver and method of detecting data from received signals. [Convention No. 9903054.6 on 12-2-1999 in Great Britain]

63/Cal/2000. Indian Institute of Technology. A process for the preparation of instant tea.

64/Cal/2000. Pearlstein Leonard. Absorbent device/article and process for manufacturing the same. (Divided out of No. 863/Cal/95 dated 27-07-1995).

8-2-2000

65/Cal/2000. Liu Lien-Huang. Cutting Tool.

66/Cal/2000. Spindelfabrik, Sussen, Schurr, Stahlecker & Grill GMBH. An apparatus for condensing a drafted fibre strand. [Convention No. 19921966.4 on 12-5-1999 in Germany].

67/Cal/2000. Patent-Treuhand-Gesellschaft Fuer Welektische Gluehlampen MBH. High-Pressure Discharge Lamp. [Convention No. 199 13 297.6 on 24-3-1999 in Germany].

68/Cal/2000. Dainichiseika Color & Chemicals Mfg. Co. Ltd. Pigment dispersions and writing instruments and printers with the dispersions stored therein. [Convention No. 037839/1999 on 16-2-1999 in Japan].

9-2-2000

69/Cal/2000. Vertex Pharmaceuticals Incorporated. Inhibitors of aspartyl protease. [Convention No. 60/120,047 on 12-2-1999 in USA].

70/Cal/2000. W. Schlafhorst AG & Co. Spinning rotor for open-end spinning machines. [Convention No. P19910277.5 on 9-3-1999 in Germany].

71/Cal/2000. Liebherr-Verzahntechnik GMBH. A work-holding device. [Convention No. 29903418.6 on 25-2-1999 in Germany].

11-2-2000

72/Cal/2000. Nippo Sewing Machine Co. Ltd. Presser foot for sewing machine. [Convention No. 11-165273 on 11-6-1999 in Japan].

73/Cal/2000. Steel Authority of India Limited. Process for improving cocking residue of extra hard pitch.

14-2-2000

74/Cal/2000. Eaton Corporation. Friction clutch with pre-damper. [Convention No. 258, 572 on 26-2-1999 in USA].

75/Cal/2000. Dynamatic Technologies Limited. Improved process for the production of metal castings.

15-2-2000

76/Cal/2000. Dr. Mrinal Kanti Ghose. Methodology for assessment of dust generation due to opencast coal mining.

77/Cal/2000. Krone Aktiengesellschaft. Overvoltage protection element. [Convention No. 19907319.8 on 20-2-1999 in Germany].

16-2-2000

78/Cal/2000. Ghatak Subrata. Re-inforced jute mastic.

79/Cal/2000. Arteva Technologies S.A.R.L. Fifth generation draw line. [Convention No. 09/356,138 on 19-7-1999 in USA].

80/Cal/2000. J. K. Agri-Genetics. A process for producing long staple, medium long duration, high yielding cotton hybrid.

81/Cal/2000. Mecon Limited, and Department of Science & Technology. Solid-state cooling/heating box.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of a patent on any of the applications concerned, may, at any time within four months from the date of this issue or within such further period not exceeding one month if applied for on Form 4 prescribed under the Patent (Amendment) Rules, 1999 before the expiry of the said period of four months, give notice to the Controller of Patents at the appropriate office on the prescribed Form 7 of such opposition. The written statement of opposition should be filed in duplicate alongwith evidence, if any, with said notice or within sixty days of its date as prescribed in Rule 36 as amended by the Patents (Amendment) Rules, 1999.

The Classification given below in respect of each specification are according to Indian Classification and International Classification Systems.

Printed copies of the specification and drawings, if any, can be supplied by the Patent Office or its branch offices on payment of prescribed charges of Rs. 30/- each.

In the event of non-availability of printed specification, photocopies of the specification and drawings, if any, can be supplied by the Patent Office and its branch offices on payment of prescribed photocopy charges @ Rs. 10/- per page of such document plus Rs. 30/-.

## स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि संबन्ध आवेदनों में से किसी पर पेटेंट अनुदान के विरोध करने के इच्छुक व्यक्ति, इसके निर्णय की तिथि से चार (4) महीने या अग्रिम ऐसी अवधि जो उक्त चार (4) महीने की अवधि की समाप्ति के पूर्व, पेटेंट (संशोधन) नियम, 1999 के तहत विहित प्ररूप 4 पर अगर बायीं ओर, एक महीने की अवधि से अधिक न हो, के भीतर कभी भी निबन्धक एकत्र को उपयुक्त कार्यालय में ऐसे विरोध की सूचना विहित प्ररूप 7 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य दो प्रतियों में साक्ष्य के साथ, यदि कोई हो, उक्त सूचना के साथ या पेटेंट (संशोधन) नियम, 1999 द्वारा संशोधित नियम 36 के तहत यथाविहित उक्त सूचना की तिथि से 60 दिन के भीतर फाइल कर दिये जाने चाहिए।

प्रत्येक विनिर्देश के संबंध में नीचे दिये वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर्राष्ट्रीय वर्गीकरण के अग्रूप हैं।

विनिर्देश तथा चित्र आरंभ, यदि कोई हो, की अंकिता प्रतियों की आपूर्ति पेटेंट कार्यालय या उसके शाखा कार्यालयों से यथाविहित 30/- रुपये प्रति की अदायगी पर की जा सकती है।

ऐसी परिस्थिति में जब विनिर्देश की अंकिता प्रति उपलब्ध नहीं हो, विनिर्देश तथा चित्र आरंभ, यदि कोई हो, की प्रतय प्रतियों की आपूर्ति पेटेंट कार्यालय या उसके शाखा कार्यालयों से यथाविहित प्रतय प्रति शुल्क उक्त दस्तावेज के 10 रुपये प्रति पृष्ठ धन 30/- रुपये की अदायगी पर की जा सकती है।

Ind. Cl. : 128 G

183791

Int. Cl.<sup>4</sup> : A 61 B 8/00; G 10 K 11/20

## A BEAM FORMER.

Applicant : SIEMENS MEDICAL SYSTEMS, INC. 186 WOOD AVENUE SOUTH ISELIN, NJ 08830 UNITED STATES OF AMERICA.

## Inventors :

- (1) KIM, JIN.
- (2) YAO, LIN XIN.
- (3) BENJANIN, ZORAN.

Application No. 568/Cal/95 filed on 22-05-95.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 6 Claims

## A beamformer, comprising :

a plurality of parallel receiving channel means (T1-TM) for detecting ultrasonic echo signals from a plurality of scanning beam lines and in response thereto producing a respective plurality of digital sample signals;

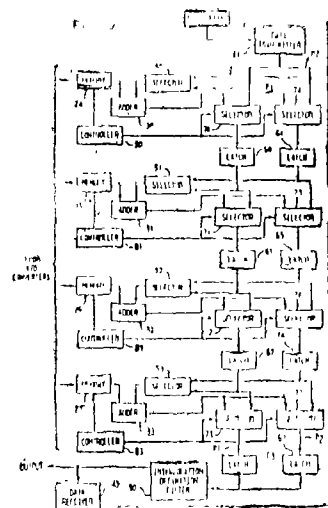
Wherein each of said parallel receiving channels comprises a memory (24-27) that is communicative with said receiving channel, each of said memories receiving and storing said digital sample signals sequentially;

for each of said parallel receiving channels, a plurality of adders (30-33) each of said memories being communicative with said adders and transferring said digital sample signals to adders in response to a control signal (fo) each of

said adders further being sequentially communicative with corresponding adders in each of the other parallel receiving channels through a plurality of summing paths such that corresponding adders form a group of adders that process digital sample signals for a given scanning beam line;

a plurality of detectors (6, 6', 107) each of said detectors being communicative with and receiving data from one of said groups of corresponding adders, each of said detectors further filtering received digital sample signals of a respective one of said groups of corresponding adders for developing a beamformer signal; and

control means (80-83) communicative with said memories and said adders and providing said control signals, such that each of said detectors produces a beamformer signal that is focused along one of said plurality of scanning beam lines.



Compl. Specn. 24 Sheets;

Drgns. 10 Sheets.

Ind. Cl. : 85 I

183792

Int. Cl. : F 23B- 7/00, F 23C 1/02

AN IMPROVED APPARATUS AND METHOD FOR EFFICIENTLY COMBUSTING LOW GRADE SOLID FUEL.

Applicant : ORMAT INDUSTRIES LTD., P. O. BOX '68, YAVNE 70650, ISRAEL.

## Inventors :

- (1) LUCIEN Y. BRONICKI.
- (2) DANIEL GOLDMAN.
- (3) BENJAMIN DORON.

Application No. 847/Cal/95 filed on 24-7-95.

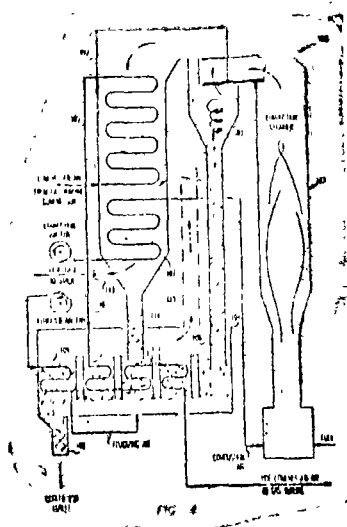
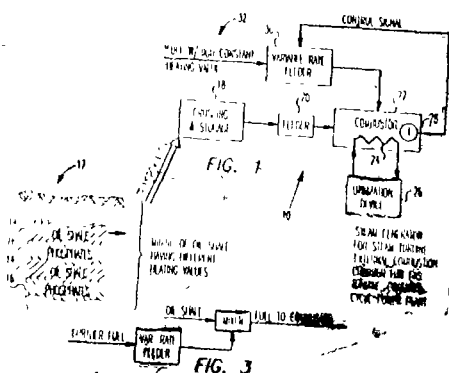
Appropriate Office for Opposition Proceedings (Rule 4, Patents, Rules, 1972), Patent Office, Calcutta.

## 17 Claims

An improved apparatus for combusting low grade solid fuel.

- (a) means (20) for supplying a mixture of different fuels such as herein described to said combustor (22), at least one of which has a heating value that varies;

(b) means (30) for controlling the relative rates at which the fuel are supplied to the combustor (22) such that the heating value of said mixture remains substantially constant.



Compl. Specn. 16 Pages;

Drgns. 5 Sheets.

Ind. Cl. : 195 D

183793

Int. Cl.<sup>4</sup> : G 01 L 13/04

#### A DEVICE TO MEASURE UNSTEADY PRESSURE.

Applicant : DR. JAGDISH NARAIN MISHRA, PROFESSOR & DEAN, PG STUDIES, BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI-835. BIHAR, INDIA.

Inventor : IDEM.

Application No. 911/Cal/95; filed on 07-08-95.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 3 Claims

A device to measure the unsteadiness of the pressure comprising two sensors, symmetrically arranged, either horizontally or vertically at the end of L-shaped casing, the said sensors is in the shape of rectangular ducts separated by a narrow metallic partition at the sensing end and circular at the extension end; the said two identical canulas are either

connected to U-tube monometer or PC based pressure transducers for us.

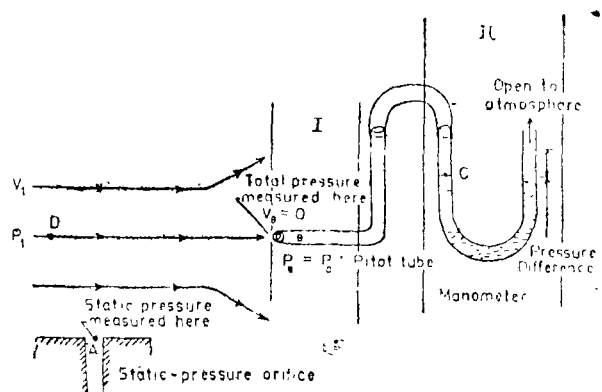


FIG-1(a)

Compl. Specn. 15 Pages;

Drgns. 6 Sheets

Ind. Cl. : 206 G

183794

Int. Cl.<sup>4</sup> : G 06K-19/06

#### SMART CARD AND SIGNAL PROCESSING SYSTEM.

Applicant : THOMSON CONSUMER ELECTRONICS, INC. OF 10330 NORTH MERIDIAN STREET, INDIANAPOLIS, INDIANA 46290-1024 U.S.A.

Inventor : JOHN WILLIAM CHANEY.

Application No. 957/Cal/95; filed on 14-8-95.

Appropriate Office for Opposition Proceedings (Rule 4, Patents, Rules, 1972), Patent Office, Calcutta.

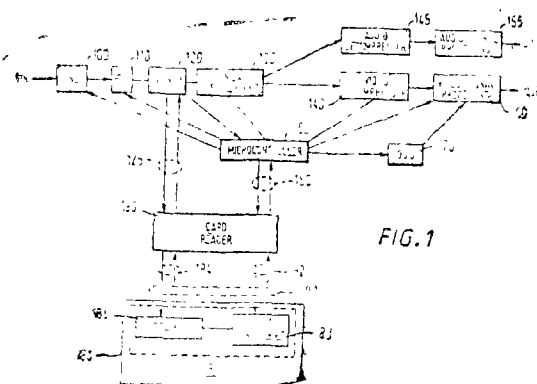
#### 17 Claims

Smart Card (180) comprising :

a first terminal (Data IN, DI) for receiving an input signal including first (ECM, EMM) and second scrambled signal components;

a second terminal (DATA OUT, DO) for providing an output signal;

means (183, 185) for processing said first scrambled signal component (ECB, EMM) for producing a first descrambled signal internal to said smart card and being responsive to said first descrambled signal for processing said second scrambled signal component for producing a second descrambled signal; and for combining said first scrambled signal component of said input signal and said second descrambled signal to produce said signal.



Compl. Specn. 29 Pages;

Drgns. 8 Sheets.

Cl. : 125 B 2

183795

Int. Cl.<sup>4</sup> : B 05 B 7/14**"AN IMPROVED APPARATUS FOR DISPENSING FINE PARTICULATE MATERIAL."**

Applicant : FAIRCOVE SYSTEMS, OF 43 FITZWILLIAM PLACE, DUBLIN 2, REPUBLIC OF IRELAND.

Inventor : WILLIAM RANKIN.

Application No. : 994/Cal/95, filed on 23-8-95.

(Convention No. S 940660 filed on 23-8-94 in Ireland).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

## 11 Claims

An improved apparatus (10) for dispensing fine particulate material (T) comprising :

- a hopper (23) for strong material (T) to be dispensed; at least one discharge tube (12) having a discharge nozzle (13);
- at least one generally horizontally disposed feeding means (25) for transferring stored material (T) from the hopper to the discharge tube (12);
- a fine particulate material metering means (35) connected to said feeding means for regulating the amount of material (T) transferred by the feeding means (25) to the discharge tube (12);
- a settling tube (15) connected to said discharge tube; and biasing means operable to urge a container (C) to be charged with material (T) into sealing engagement with the discharge nozzle.

Whereby in use the container (C) is sealed against the discharge nozzle (13), the feeding means (25) transfers a predetermined amount of material (T) from the hopper (23) to the discharge tube (12) and material laden displaced air (T') from the container (C) escapes into the settling tube (15) where the material in the displaced air (T') settles and falls by gravity into the container (C).

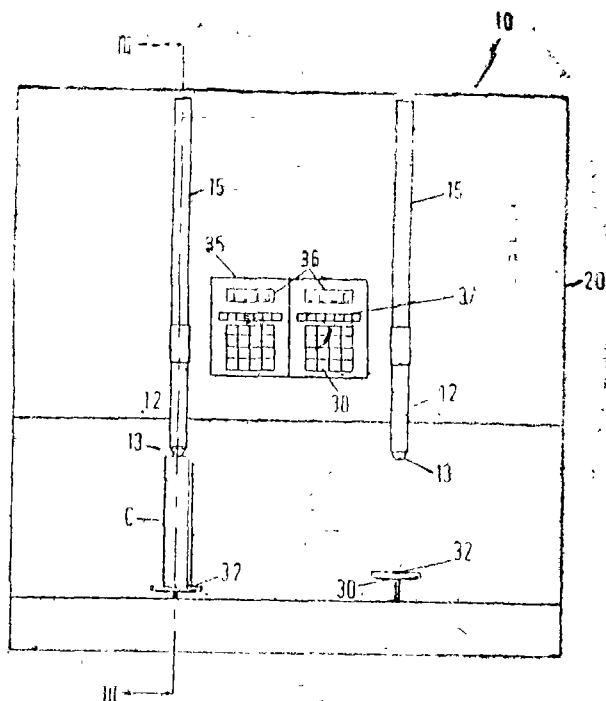


FIG 1

Compl. Specn. 11 pages

Drgns. 2 sheets

Ind. Cl. : 140 A<sub>2</sub>

183796

Int. Cl. : C 10 M - 101/02; 105/74

**"LUBRICANT COMPOSITION SUITABLE FOR HYDROSTATIC BEARINGS"**

Applicant : INDIAN ALUMINIUM COMPANY LIMITED OF 1 MIDDLETON STREET, CALCUTTA-700071, WEST BENGAL, INDIA.

Inventors : APARNA GAJANAN KORDE, DEB KUMAR TAPADAR.

Application No. 46/Cal/96; filed on 9-1-96.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

## 6 Claims

Lubricant composition suitable for hydrostatic bearings said composition comprising :

- A. 95—99.5% parts by volume of a refined petroleum fraction such as herein described, having a kinematic viscosity in the range of 2 to 40 mm<sup>2</sup>/s at 40°C and more than 95% of paraffinic hydrocarbon content as herein defined;
- B. about 0.5 to 5.0 parts by volume of an organic phosphate such as herein described, having phosphorous content below 10% and, kinematic viscosity of less than 100mm<sup>2</sup>/s at 25°C, said phosphates being predominantly aromatic with aromatic content being more than 90%; and optionally
- C. about 0.01 to 0.10 part by mass of an organic inhibited phenolic compound such as herein described.

Compl. Specn. : 11 Pages

Drgns. : Nil

Ind. Cl. : 55 D 2

183797

Int. Cl.<sup>4</sup> : A 01 N 59/06**A METHOD FOR PREPARATION OF A PROTECTIVE COATING FOR PROTECTING SURFACES FROM ARTHROPOD INFESTATION.**

Applicants : 1. ENGELHARD CORPORATION, OF 101 WOOD AVENUE, ISELIN, NEW JERSEY 08830-0770, U.S.A.

2. THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF AGRICULTURE, U.S. DEPARTMENT OF AGRICULTURE, WASHINGTON, DC.

Inventors : GARY I. PUTERKA, DENNIS G SEKUTOWSKI, D MICHAELGLENN.

Application No. 326/Cal/98, filed on 27-2-98.

(Convention No. 08/972, 6535 on 18-11-97. in U.S.A.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A method for the preparation of a protective coating for protecting surfaces from arthropod infestation, comprising :—

Selecting one or more particulate materials from the group comprising calcined kaolins, hydrophobic calcined kaolins, hydrous kaolins, hydrophobic kaolins, hydrophobic calcium carbonates, calcium carbonates and mixtures thereof such as herein described and

adding said selected particulate materials in finely divided form to a volatile liquid such as herein described to form a dispersion, wherein the amount of liquid is upto 30 volume percent of the dispersion.

Compl. Specn. : 23 pages

Drgns. : Nil

Ind. Cl. : 32 F<sub>2</sub>(C) 183798  
55 E<sub>2</sub>

Int. Cl.<sup>4</sup> : A 61 K 37/02  
C 12 N 9/96

**"A PROCESS FOR PREPARING ACTIVATED PROTEIN C".**

Applicant : ELI LILLY AND COMPANY, AT LILLY CORPORATE CENTER, CITY OF INDIANAPOLIS, STATE OF INDIANA, UNITED STATES OF AMERICA.

Inventors : ANDREW DAVID CARISON AND THOMAS ARSAY SHELIGA.

Application No. 751/Cal/98; filed on 27-4-98.

(Convention No. 60/045,255; on 28-04-1997; in US).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

**13 Claims**

A process for preparing activated protein C which comprises lyophilizing a solution of pH 5.5 to 6.5 having activated protein C and a bulking agent selected from the group consisting of mannitol, trehalose, raffinose, and sucrose and mixtures thereof wherein the weight ratio is 1 part activated protein C between 7 to 8 parts salt and between 5 to 7 parts bulking agent.

Compl. Specn. : 24 pages

Drgns. : Nil

Ind. Cl. : 55 E 4 183799  
Int. Cl.<sup>4</sup> : A 61 K 31/00

**A PROCESS FOR PREPARATION OF DEXTROROTATORY ISOMER ENRICHED ISOMERIC MIXTURE SOTALOL, (N - [4 - [1 - HYDROXY - 2 - [(1 - METHYLETHYL) AMINO] ETHYL] PHENYL] - METHANE SULFONAMIDE).**

Applicant : TORRENT PHARMACEUTICALS LTD. AN INDIAN COMPANY, OF "TORRENT HOUSE", NEAR DINESH HALL, OFF ASHRAM ROAD, AHMEDABAD-380 009, INDIA.

Inventor : ALANGUDI SANKARANARAYANAN.

Application No. : 933/Cal/98; filed on 22-5-98.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

**9 Claims**

A process for preparation of dextrorotatory isomer enriched isomeric mixture of sotalol, being N - [4 - [1 - Hydroxy - 2 - [(1 - methylethyl) amino] ethyl] phenyl] 1 - methane sulphonamide, wherein the range of ratio of dextro-and laevo-isomers in the mixture is between 51 : 49 and 99 : 1, which comprises the steps of :

- (A) Conversion of racemic ( $\pm$ ) sotalol hydrochloride to its free base by treatment with a base, such as herein described,
- (b) resolution of free base of ( $\pm$ ) sotalol obtained in step (a) by treatment with a resolving agent, such as herein described, to yield the diastereoisomers of sotalol,
- (c) repetitive crystallisation of the diastereoisomer formed in step (b), in the manner such as herein described, till the level of enrichment of the dextro-isomer of sotalol (according to HPLC analysis) in the mixture is marginally higher than proportion of this isomer in the final isomeric mixture,
- (d) reconversion of the crystals of d-isomer enriched diastereoisomers obtained after final crystallization of step (c) to its hydrochloride salt;

- (e) mixing of the d-isomer enriched hydrochloride salt of sotalol mixture obtained in step (d) with a hydrochloride salt of the racemic mixture of sotalol or with an isomeric mixture of sotalol obtained as an intermediate product during the repetitive crystallization step (c), in the required proportion, as determined by the alligation method, to obtain the enriched isomeric mixture with desired ratio of dextro-and laevo-isomers.

Compl. Specn. : 18 pages

Drgns. : 5 sheets

Ind. Cl. : 55 E 4

183800

Int. Cl. : A 61 K 31/545

**A PROCESS FOR THE PREPARATION AND ISOLATION OF CEFUROXIME AXETIL.**

Applicant : J. K. DRUGS & PHARMACEUTICALS LTD., OF 8 MILAP NIKETAN BAHADUR SHAH JAFAR MARG, NEW DELHI-110002, INDIA.

Inventors : ANIL KUMAR SHARMA, DR. HARISH RANJAN, DR. UTTAM KUMAR RAY AND DR. SARIKA SINGH.

Application No. 187/Cal/99; filed on 8-3-99.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

**8 Claims**

A process for the preparation and isolation of cefuroxime axetil of formula I from cefuroxime acid of formula II comprising :

suspending cefuroxime acid of formula II in N, N-dimethyl acetamide or a mixture of N, N-dimethyl acetamide and dichloromethane at temperature 20—25°C in the ratio ranging between 1 : 1-5 w/v adding 1, 8-Diazabicyclo [5.4.0] undec-7-ene (DBU) of formula III in the above suspension till the cefuroxime acid of formula II is dissolved, the amount DBU with respect to cefuroxime acid ranging between 1 : 0.2-1 w/v;

adding  $\alpha$ -bromoethyl acetate with polar solvent in the above solution to form cefuroxime axetil of formula I, in the ratio I (cefuroxime acid) : 0.5-2 ( $\alpha$ -bromoethyl acetate) : 1-5 (polar solvent) w/w

stirring the reaction mixture at 0—15°C till the content of cefuroxime acid of formula II in the above solution is reduced up to 1% and the remaining up to 99% is cefuroxime axetil of formula I,

adding 5—25 times ethyl acetate with respect to cefuroxime acid to the above reaction mixture and concentrating it at 15—40°C wherein alcohol, as herein described, is added to the said concentrated mixture and stirring for 2 to 3 hours at 10—40°C for removing colour impurities, the ratio of alcohol with respect to cefuroxime acid 1—3 : 1 w/v, adding cyclopentane, cyclohexane or cycloheptane of formula IV, V and VI either alone or a mixture of two or three in the ratio depending upon the the quantity of the concentrated mixture to remove the  $\Delta^2$  isomers and anti-isomers impurities and isolating cefuroxime axetil of formula I after stirring and filtering at 20—40°C and drying.

Compl. Specn. : 10 pages

Drgn. : Nil

**OPPOSITION PROCEEDINGS**

An opposition entered by M/s. Bio-Ved Pharmaceuticals Pvt. Ltd., Pune to the grant of patent to the application No. 180518 (639/Del/94) has been terminated and the application for patent has been ordered to proceed for sealing.

## RENEWAL FEES PAID

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## PATENT SEALED ON 16-03-2000

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 183074\*F 183075\*D 183076\*F 183077\*F 183078\*D  
 183079\*D 183080\*D

## CAL-05, DEL-11, MUM-02, CHEN-09

\*Patent shall be deemed to be endorsed with words Licence of Right Under Section 87 of the Patents Act., 1970 from the date of expiration of three years from the date of sealing.

D-Drug Patents, P-Food Patents

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of registration included in the entries.

Class 3. Nos. 179001 to 179003, Sandhu Industries, E-568, Phase-VI, Focal Point Ludhiana, Punjab, India, an Indian partnership firm whose partners are Iqbal Singh Sandhu, Daljit Singh Sandhu, Baljit Singh Sandhu, Mr. S. Malwinder Dhanoya being Indian nationals of the above address, "SIDE WHEELS FOR KID CYCLES", 19th March 1999.

Class 3. Nos. 179004 to 179009, Sandhu Industries, E-568, Phase-VI, Focal Point Ludhiana, Punjab, India, an Indian partnership firm whose partners are Iqbal Singh Sandhu, Daljit Singh Sandhu, Baljit Singh Sandhu, Mr. S. Malwinder Dhanoya being Indian Indian nationals of the above address, "TRAINER WHEELS FOR KID CYCLES", 19th March 1999.

Class 1. No. 179010, Seth Industrial Corporation, 80A, Industrial Estate, Ludhiana, Punjab, India, an Indian partnership firm whose partners are Bal Kishan Seth, Kewal Krishan Seth, Rajesh Seth, Raman Seth being Indian nationals of the above address, "CHAINWHEEL FOR USE IN BICYCLES & RICKSHAWS", 19th March 1999.

Class 6. No. 179011, Maria Leder India Private Limited, a company incorporated and existing under the Indian Companies Act, 1956 of the address A-31, Naraina Industrial Area, Phase I, New Delhi-110028, India, "CAPE", 19th March 1999.

Class 11. No. 179012, Maria Leder India Private Limited, a company incorporated and existing under the Indian Companies Act, 1956 of the address A-31, Naraina Industrial Area, Phase I, New Delhi-110028, India, "CAPE", 19th March 1999.

Class 3. No. 179014 & 179015, Parker Pen Products, a British corporation of 101 Syon Lane, Isleworth, Middlesex, TW7 5NP, United Kingdom, "WRITING INSTRUMENT", 22nd March 1999.

Class 3. No. 179017, Schoeller Plast SA, a Swiss company of 11 route de la Condemine, 1680, Romont, Switzerland, "BOTTLE CRATE", 22nd March 1999.

DR. S. K. PAI.

Asstt. Controller of Patents & Designs

प्रबन्धक, भारत सरकार मद्रासालय, करीदाबाद द्वारा मद्रित

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